

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 03/02465

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02P7/74 H02P7/64 H02M5/44 H02M7/797

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H02P H02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 42 35 223 C (LICENTIA GMBH) 11 November 1993 (1993-11-11) column 6, line 9-11; figures 1,2 column 5, line 52-56 column 6, line 11 column 3, line 37-45 column 4, line 62-65 column 6, line 1,2 column 3, line 55-61 column 6, line 24-28 column 3, line 31-54	1,21,24
X	column 3, line 31-54; figure 2	2-4
Y	column 4, line 58-65	5-19,27
X	column 7, line 28-34; figure 2	20
X	column 4, line 15-24; figure 2	22,23
X	column 6, line 62-68; figure 2	25,26
	-/-	

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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& document member of the same patent family

Date of the actual completion of the international search 24 June 2003	Date of mailing of the International search report 03/07/2003
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax. (+31-70) 340-3016	Authorized officer Kanelis, K

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 44 23 692 A (ABB PATENT GMBH) 11 January 1996 (1996-01-11) column 5, line 40-55; figure 1 column 2, line 26-35 ----	5-19,27
A	DE 198 49 763 C (SIEMENS AG) 2 March 2000 (2000-03-02) column 3, line 14-21; figure 2 ----	1-27
A	DE 101 52 487 A (VOITH TURBO KG) 28 February 2002 (2002-02-28) column 9, line 8-29; figures 1A,3 column 16, line 62 -column 17, line 61 -----	1-27

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Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
DE 4235223	C	11-11-1993	DE	4235223 C1		11-11-1993
DE 4423692	A	11-01-1996	DE AT DE DK EP US	4423692 A1 156431 T 59403662 D1 691236 T3 0691236 A1 5614796 A		11-01-1996 15-08-1997 11-09-1997 02-03-1998 10-01-1996 25-03-1997
DE 19849763	C	02-03-2000	DE EP	19849763 C1 0997339 A2		02-03-2000 03-05-2000
DE 10152487	A	28-02-2002	DE	10152487 A1		28-02-2002

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